

**AMENDMENTS TO THE DRAWINGS**

Please amend the drawings as indicated on the attached replacement sheets.

**REMARKS**

This Amendment and Response to Non-Final Office Action is being submitted in response to the non-final Office Action mailed May 17, 2005. Claims 1-20 were pending in the Application. Claims 2-5, 7-10, 13-15, and 18-20 stand rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Claims 2-4, 7-9, 13-15, and 18-19 stand rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. The specification stands objected to for various informalities and the drawings stand objected to for the lack of a required designating legend. Claims 1, 6, 11, 12, 16, and 17 have been allowed.

In response to these rejections and objections, Claims 2-5, 7-9, 13-15, 18, and 19, the specification, and the drawings have been amended to further clarify the subject matter which Applicants regard as the invention. Claims 10 and 20 have been canceled. The amendments are fully supported in the specification, drawings, and claims of the Application and no new matter has been added. Based upon the amendments, reconsideration of the Application is respectfully requested in view of the following remarks.

**Objections to the Specification and Drawings:**

The specification stands objected to for various informalities and the drawings stand objected to for the lack of a required designating legend.

In response to these objections, spelling and typographical errors have been corrected throughout the specification (including at page 9, line 2) and the designating legend "Prior Art" has been added to Figure 4, as suggested.

**Rejection of Claims 2-5, 7-10, 13-15, and 18-20 Under 35 U.S.C. 112, second paragraph:**

Claims 2-5, 7-10, 13-15, and 18-20 stand rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Claims 2-4, 7-9, 13-15, and 18-19 stand rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps.

In response to these rejections, Claims 2-4, 7-9, 14, and 19 have been amended such that they no longer omit essential steps, such omission amounting to a gap between the steps. These claims now recite “wherein the electrical signal is sampled while the field effect transistor is activated, thereby eliminating the need for FET-off settling time before sampling”, “wherein the field effect transistor is deactivated while the reset switch is activated, thereby reducing lag, as compared to the lag in conventional amorphous silicon flat panel x-ray detectors”, and “wherein the frame rate is in excess of 30 frames per second”, generally stating the results of performing the steps associated with the independent claims from which they depend. Likewise, the improper “in a manner” and “are achievable” language cited by Examiner has been removed from these claims.

Also in response to these rejections, Claims 5 and 15 have been amended to remove improper comparisons with “conventional amorphous silicon flat panel x-ray detector sampling methods”. Claims 10 and 20 have been canceled.

Therefore, Applicants submit that the rejections of Claims 2-5, 7-10, 13-15, and 18-20 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention and Claims 2-4, 7-9, 13-15, and 18-19 under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a

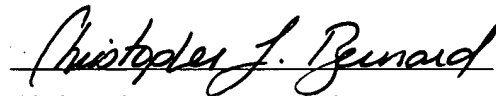
gap between the steps, have now been overcome and respectfully request that these rejections be withdrawn.

CONCLUSION

Applicants would like to thank Examiner for the attention and consideration accorded the present Application. Should Examiner determine that any further action is necessary to place the Application in condition for allowance, Examiner is encouraged to contact undersigned Counsel at the telephone number, facsimile number, address, or email address provided below. It is not believed that any fees for additional claims, extensions of time, or the like are required beyond those that may otherwise be indicated in the documents accompanying this paper. However, if such additional fees are required, Examiner is encouraged to notify undersigned Counsel at Examiner's earliest convenience.

Respectfully submitted,

Date: June 21, 2005

  
Christopher L. Bernard, Esq.  
Registration No.: 48,234

**DOUGHERTY, CLEMENTS, HOFER, BERNARD & WALKER**  
1901 Roxborough Road, Suite 300  
Charlotte, North Carolina 28211 USA  
Telephone: 704.366.6642  
Facsimile: 704.366.9744  
cbernard@worldpatents.com